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## Efficiency of electrochemical amination of anisole in aqueous-organic solutions of 4 M H<sub>2</sub>SO<sub>4</sub>

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### Abstract

Cathodically initiated amination of anisole has been performed with the Ti(IV)-NH<sub>2</sub>OH system in aqueous solutions of 4 M H<sub>2</sub>SO<sub>4</sub> containing high concentration of acetic acid or acetonitrile. In electrolyses performed to reach full conversion of hydroxylamine, the isomeric anisidines obtained (2 para/ortho ~ 3.9) with total yields referred to the current and amino radical source exceeded 80%. © Pleiades Publishing, Ltd., 2012.

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### Keywords

Amino cation radical, Cathode, Cation radical aromatic substitution, Hydroxylamine, Mediator system Ti(IV)/Ti(III)